IN THE CLAIMS:

Please amend claims 1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 18, 21, 25, and 27 as follows.

1. (Currently Amended) A system for configuring differentiated services (Diffserv) over multi-protocol label switching (MPLS) in a network that includes MPLS tunnels, comprising:

a policy server that is arranged to

configure a customer policy comprising a tunnel mode, and

<u>configure</u> a mapping policy that maps between an experimental (EXP) field and a unique per-hop-behavior (PHB), and to

senddeploy the mapping policy and the customer policy to interfaces of devices of the <u>a</u> network that correspond that includes multi-protocol label switching tunnels, corresponding to the tunnels, at least one of the network devices comprising an egress interface of one of said multi-protocol label switching tunnels, wherein the interfaces and the customer policy are associated with a same role name.

- 2. (Currently Amended) The system of claim 1, wherein the customer policy <u>further</u> comprises a tunnel group identifier and tunneling mode.
- 3. (Original) The system of claim 1, wherein the policy server translates the mapping policy into device specific commands, and deployment is performed by deploying commands to specific devices.
- 4. (Currently Amended) The system of claim 1, wherein deployment is such that the interfaces associate with at least one of input roles, output roles and <u>multi-protocol label switching MPLS</u>-gateways of customer source and destination host groups.

5. (Currently Amended) An apparatus for configuring Diffserv over MPLS in a network, comprising:

a memory;

a service application residing on the memory,

wherein the service application is arranged to configure a customer policy that comprises a tunnel group <u>identifier</u> and tunneling mode, the customer policy being arranged to have customer traffic mapped into <u>multi-protocol label switching MPLS</u> tunnels <u>corresponding to the tunnel group identifier</u>, and

wherein the service application is arranged to configure an EXP-to-PHBexperimental-to- per-hop-behavior mapping policy that is arranged to map EXP experimental fields to per-hop-behavior PHB;

a central processing facility that is arranged to translate the customer policy and mapping policy into device-neutral policy parameters; and

a policy consumer that is arranged to translate the device-neutral policy parameters into device-specific commands, and that is further arranged to deploy send the device-specific commands to policy targets, such that the customer policy and mapping policy are implemented across at least a portion of the network, wherein each policy target comprises a network device, at least one of the network devices comprising an egress interface of said tunnel group.

- 6. (Original) The apparatus of claim 5, further comprising:
 a user interface that is arranged to receive the customer policy and the mapping policy.
- 7. (Currently Amended) The apparatus of claim 5, wherein deployment is such that the interfaces associate with at least one of input roles, output roles and <u>multi-protocol label switching MPLS</u> gateways of customer source and destination host groups.

- 8. (Currently Amended) The apparatus of claim 5, wherein the policy consumer is further arranged to attach the customer policy to the corresponding MPLS-multi-protocol label switching tunnels and deploy the customer policy to interfaces of the attached MPLS-multi-protocol label switching tunnels.
- 9. (Original) The apparatus of claim 5, further comprising: a database for storing the device-neutral policy parameters.
- 10. (Currently Amended) The apparatus of claim 5, wherein the service application comprises a tunnel group object that is arranged to create the MPLS-multi-protocol label switching tunnels by specifying end-point routers and inter-connecting topology.
- 11. (Currently Amended) An apparatus for configuring Diffserv over MPLS in a network, comprising:
- a means for defining a mapping policy that maps between an EXP experimental field and a unique PHB per-hop-behavior;
- a means for maintaining a customer policy, the customer policy comprising a tunnelling mode;
- a means for translating the mapping policy and customer policy into devicespecific commands; and
- a means for <u>sending deploying</u> the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface that is associated with a role name that is also associated with the customer policy, <u>said</u> interfaces including an egress interface of at least one of multi-protocol label switching tunnels.
- 12. (Original) The apparatus of claim 11, wherein

the customer policy includes information about a tunnel group identifier and a tunnel mode.

13. (Currently Amended) The apparatus of claim 11, wherein

deployment is such that the interfaces associate with at least one of input roles, output roles and MPLS multi-protocol label switching gateways of customer source and destination host groups.

14. (Currently Amended) An article comprising: a storage medium, the storage medium having instructions stored thereon, wherein when the instructions are executed by at least one device, they result in:

defining a mapping policy configured to map between an EXP experimental field and a unique per-hop-behavior PHB;

defining a customer policy <u>comprising a tunnelling mode</u>, the customer policy <u>beingthat is</u> configured to govern the treatment of individual customer traffic;

defining a network policy that is configured to define the Diffserv treatment of aggregated traffic;

translating the mapping policy, the network policy and the customer policy into device-specific commands; and

deploying the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface assigned a role name associated with the customer policy, at least one interface comprising an egress interface of at least one multi-protocol label switching tunnel.

15. (Original) The article of claim 14, wherein executing the instructions further results in:

generating device neutral information associated with the mapping policy, the network policy and the customer policy.

- 16. (Original) The article of claim 15, wherein the device specific commands are generated from the device neutral information.
- 17. (Original) The article of claim 15, wherein executing the instructions further results in: storing the device neutral information in a database.
- 18. (Currently Amended) The article of claim 14, wherein deployment is such that the interfaces associate with at least one of input roles, output roles and MPLS multi-protocol label switching gateways of customer source and destination host groups.
- 19. (Original) The article of claim 14, wherein deploying the mapping policy to the network interfaces further comprises issuing new commands to reconfigure a router based on the mapping policy.
- 20. (Original) The article of claim 14, wherein the customer policy includes information about a tunnel group identifier and a tunnel mode.
- 21. (Currently Amended) A method-for configuring Diffserv over MPLS in a network , comprising:

defining a mapping policy configured to map between an EXP experimental field and a unique per-hop-behavior PHB;

defining a customer policy <u>comprising a tunneling mode</u>, the <u>customer policy</u> <u>being that is configured to govern the treatment of individual customer traffic;</u>

defining a network policy that is configured to define the Diffserv treatment of aggregated traffic;

translating the mapping policy, the network policy and the customer policy into device-specific commands; and

sendingdeploying the device-specific commands to policy targets, wherein each policy target comprises a network device that includes an interface assigned a role name associated with the customer policy, at least one of the interfaces comprising an egress interface of one of multi-protocol label switching tunnels.

- 22. (Previously Presented) The method of claim 21, further comprising: generating device neutral information associated with the mapping policy, the network policy and the customer policy.
- 23. (Previously Presented) The method of claim 22, wherein the device specific commands are generated from the device neutral information.
- 24. (Previously Presented) The method of claim 22, further comprising: storing the device neutral information in a database.
- 25. (Currently Amended) The method of claim 21, wherein deployment is such that the interfaces associate with at least one of input roles, output roles and <u>multi-protocol label switching MPLS</u>-gateways of customer source and destination host groups.
- 26. (Previously Presented) The method of claim 21, wherein

deploying the mapping policy to the network interfaces further comprises issuing new commands to reconfigure a router based on the mapping policy.

27. (Currently Amended) The method of claim 21, wherein

the customer policy includes information about a tunnel group identifier and a tunnel mode.